

BEST AVAILABLE COPY

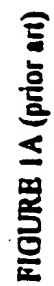


FIGURE 1A (prior art)

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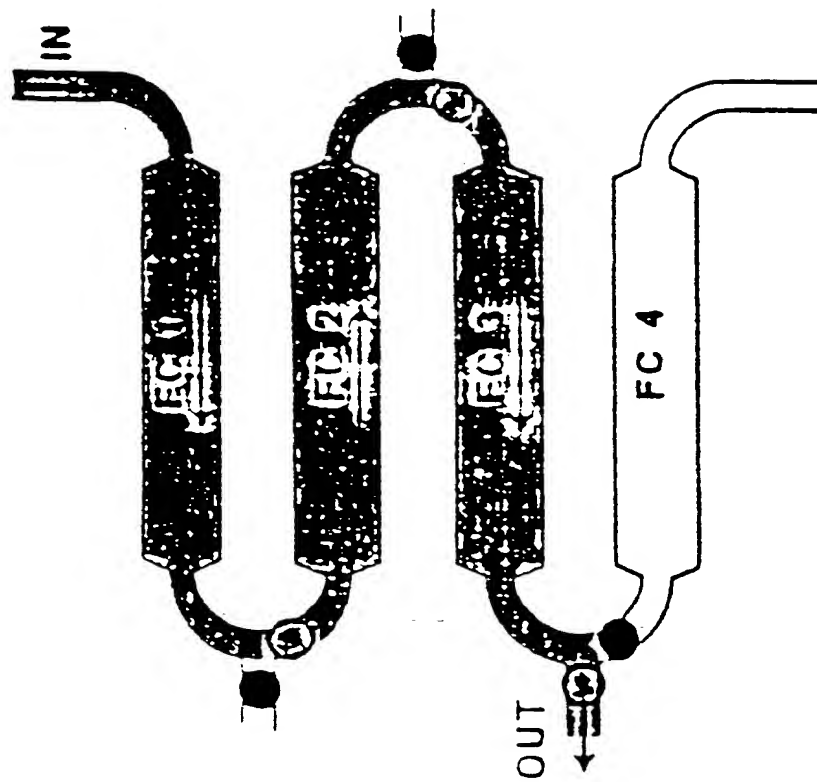


FIGURE 1B (prior art)

09769313.044304
FIG. 2A

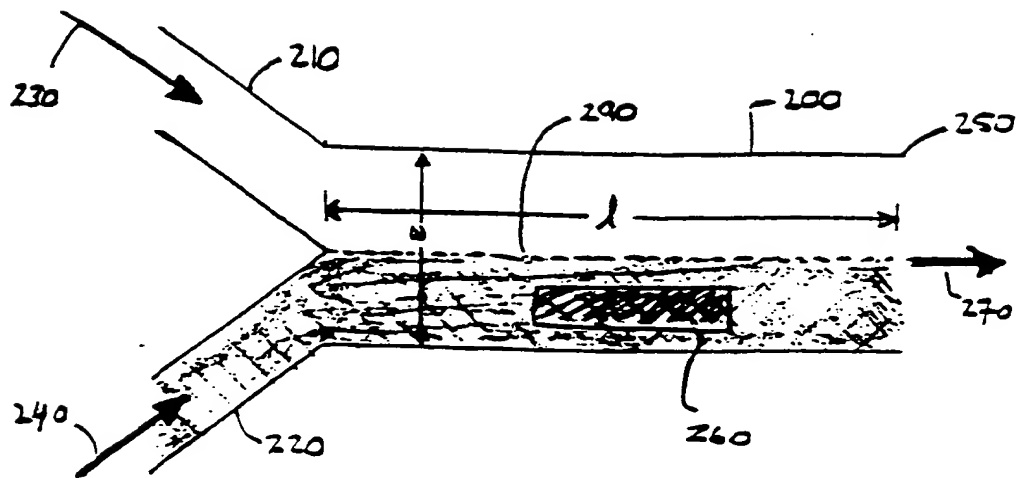


FIGURE 2A

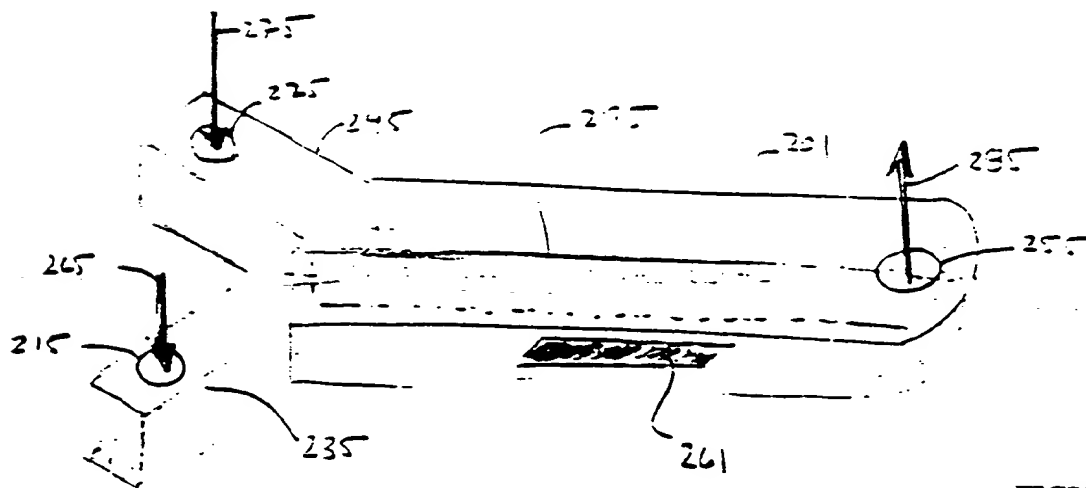


FIGURE 2B

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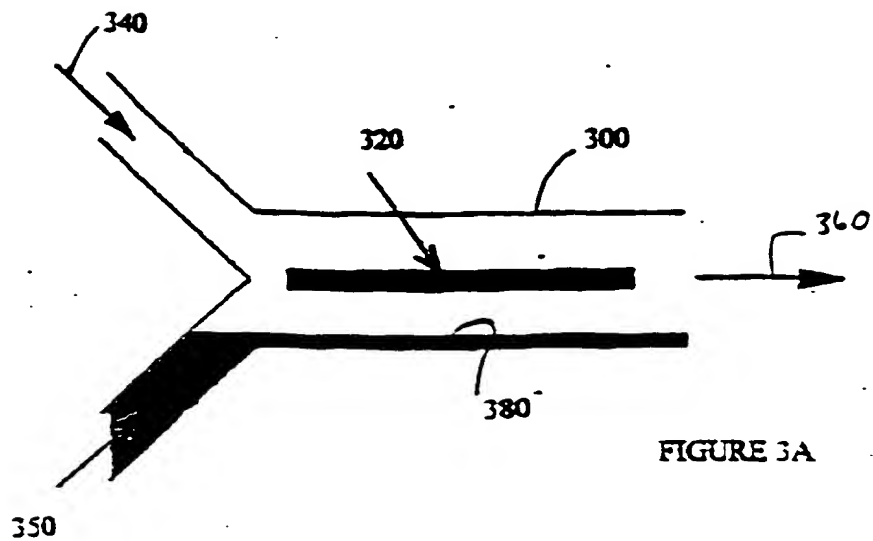


FIGURE 3A

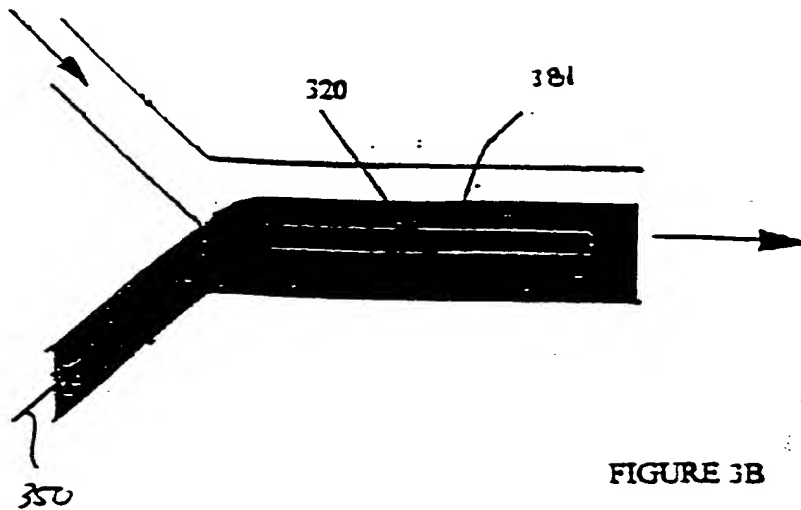


FIGURE 3B

FIG. 4A

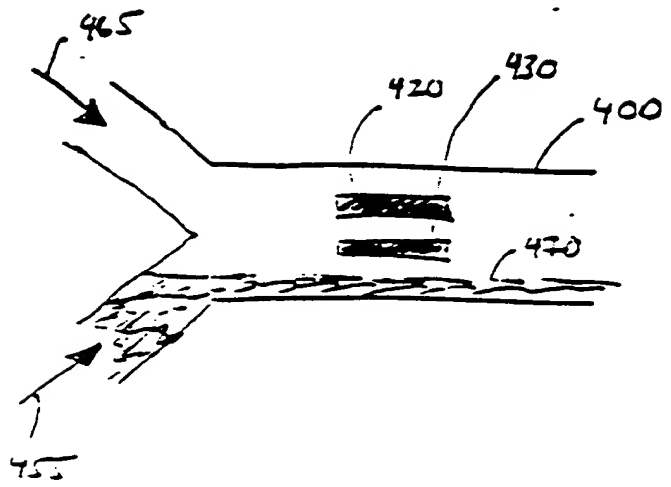


FIGURE 4A

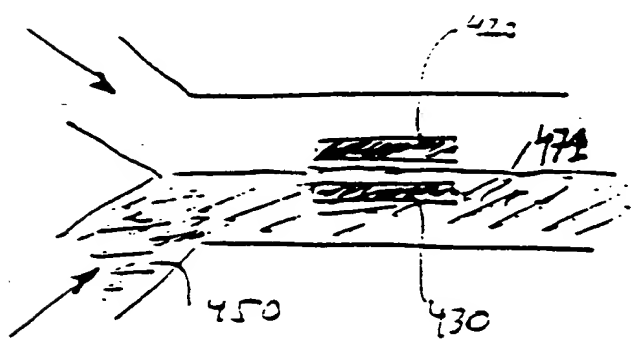


FIGURE 4B

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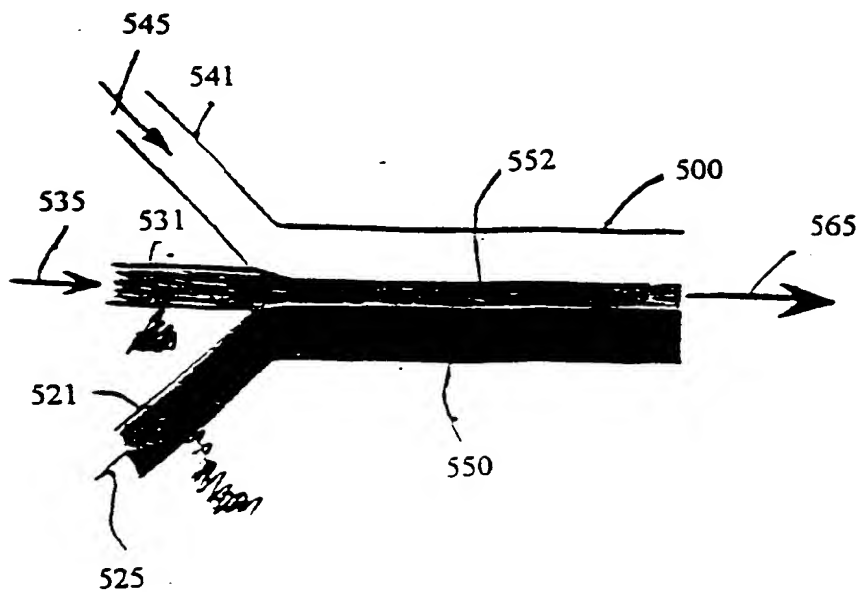


FIGURE 5A

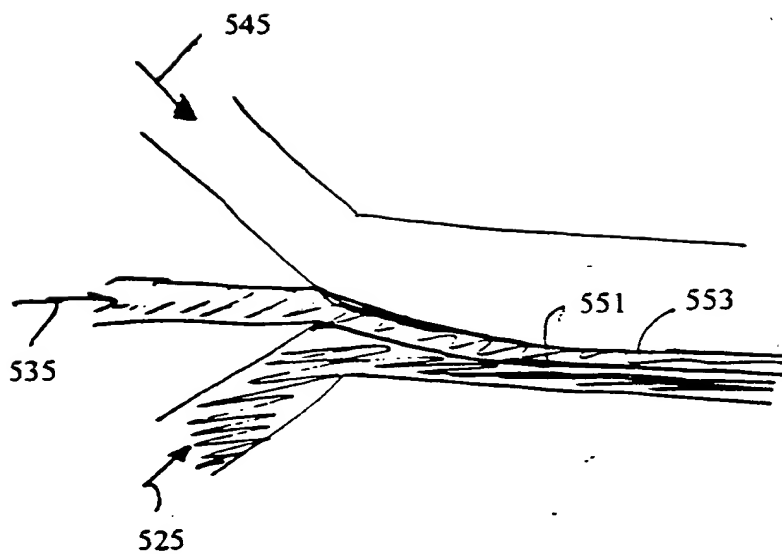


FIGURE 5B

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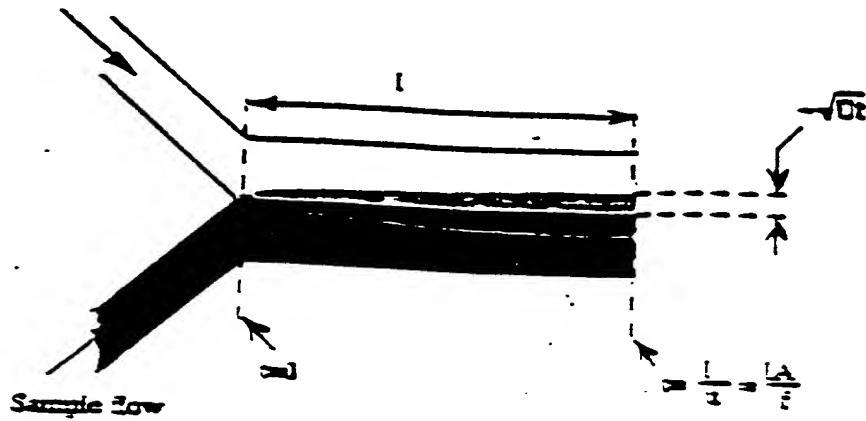


FIGURE 6

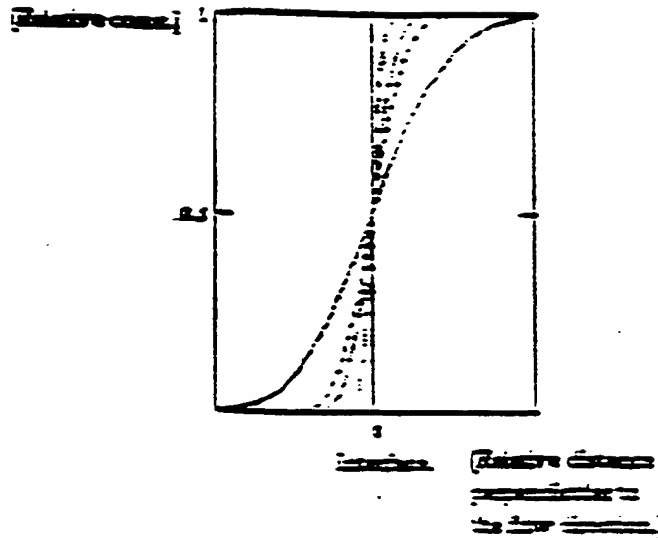


FIGURE 7A

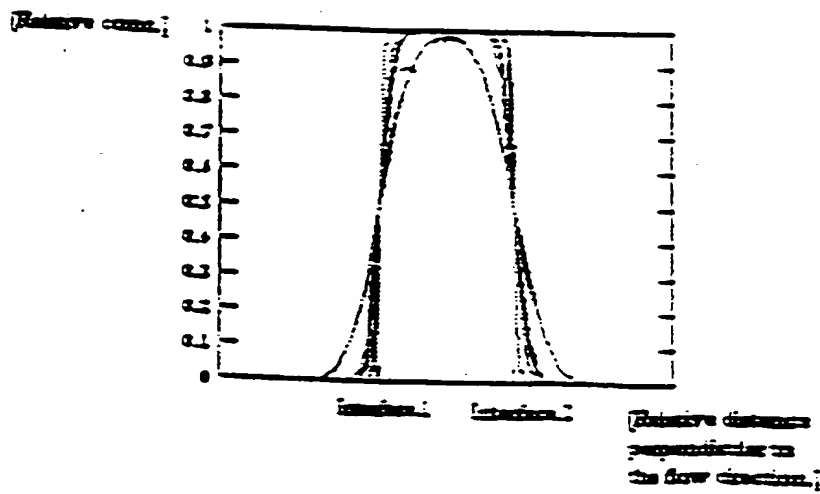


FIGURE 7B

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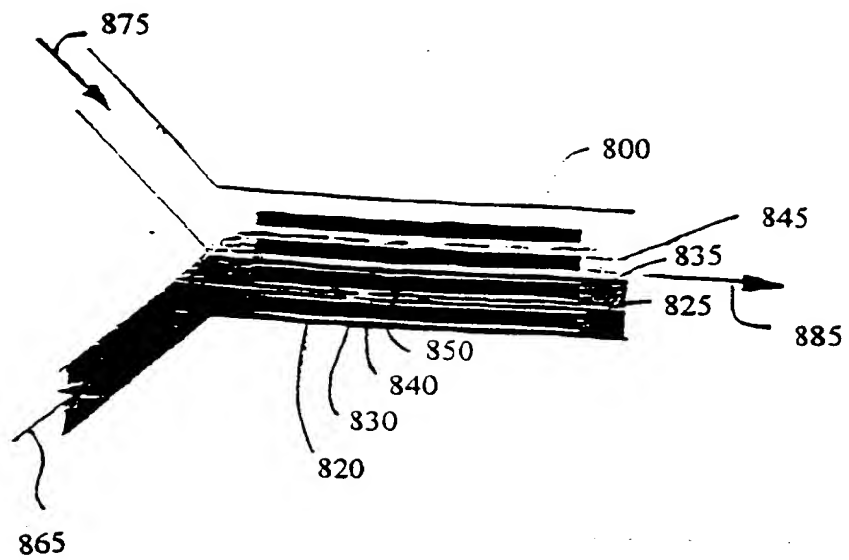


FIGURE 8

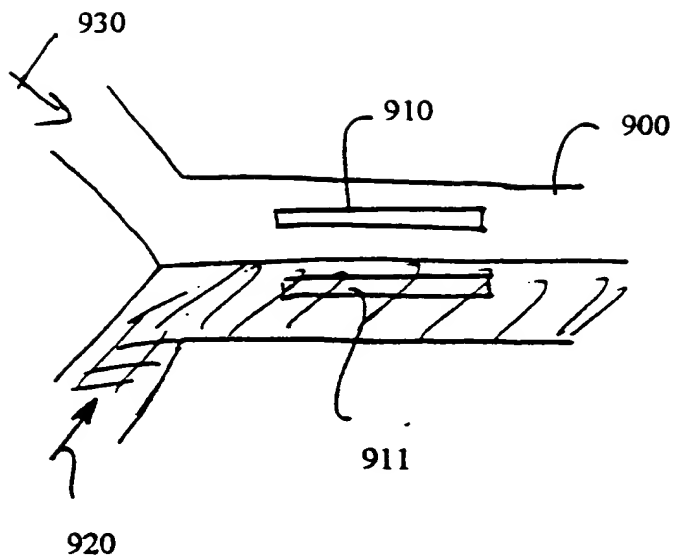


FIGURE 9

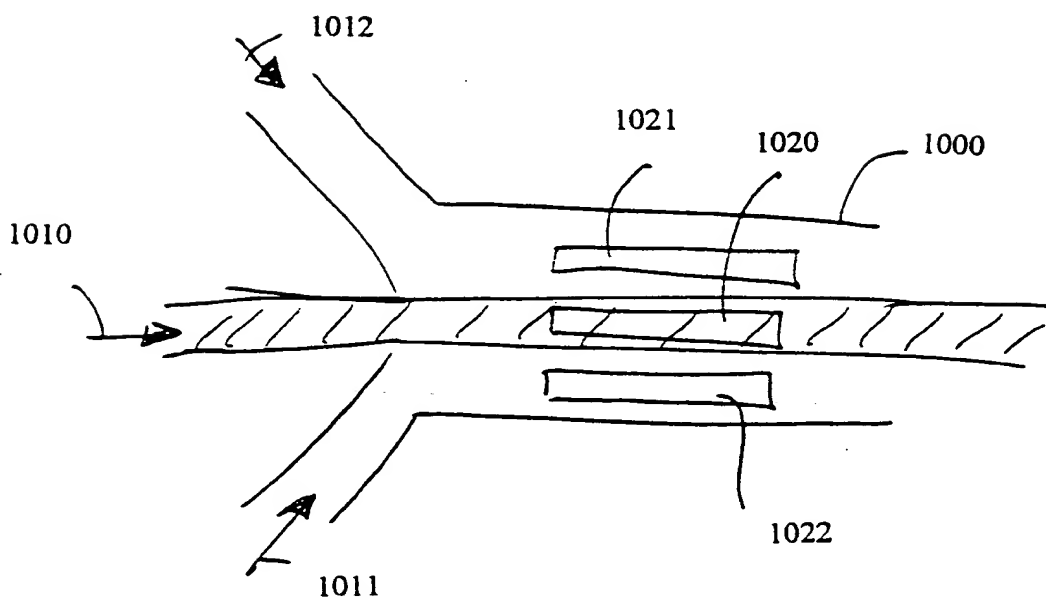


FIGURE 10

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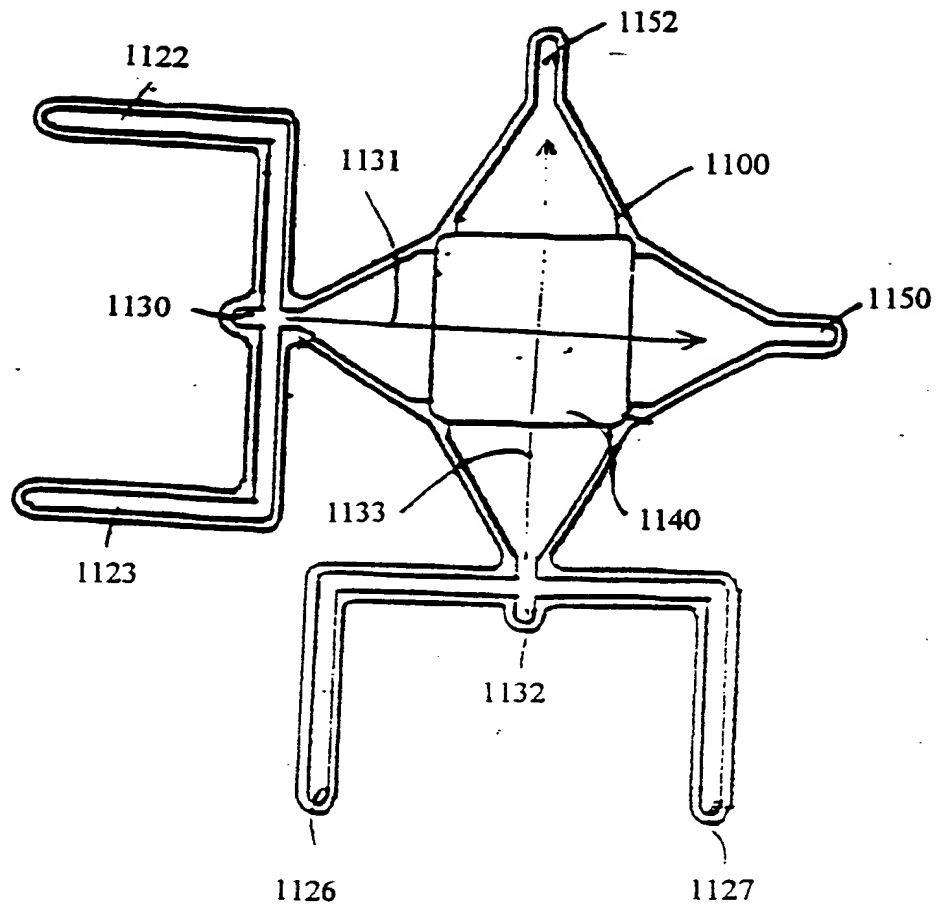


FIGURE 11A

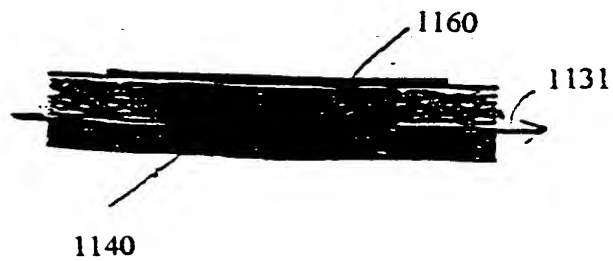


FIGURE 11B

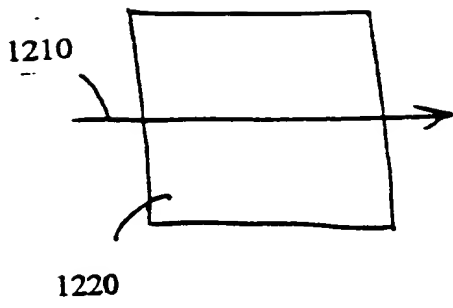


FIGURE 12A

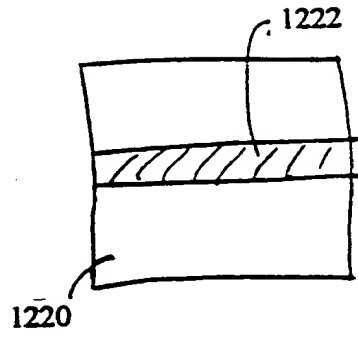


FIGURE 12B

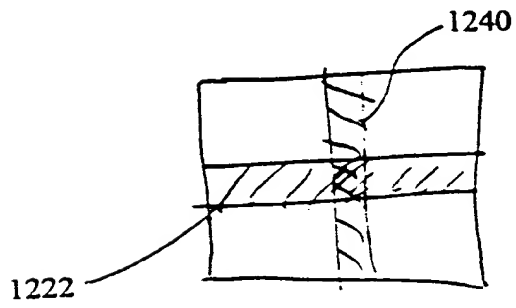


FIGURE 12D

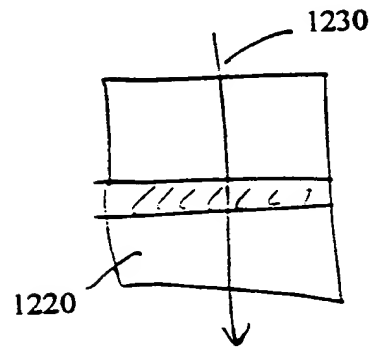


FIGURE 12C

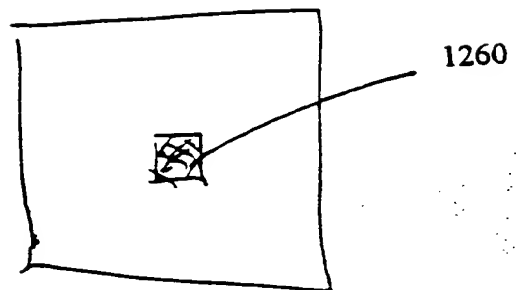


FIGURE 12E

FIGURE 12

FIGURE 12E

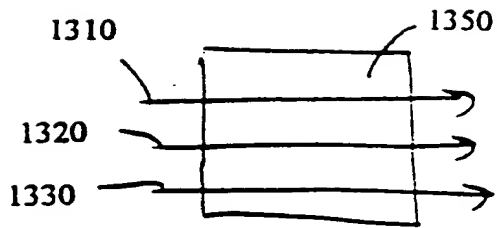


FIGURE 13A

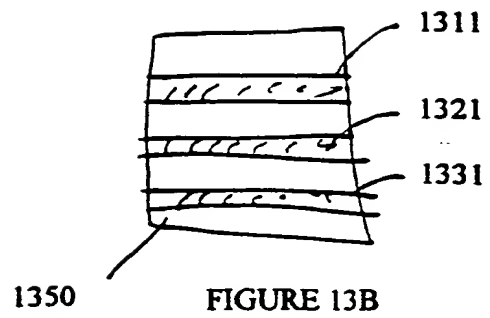


FIGURE 13B

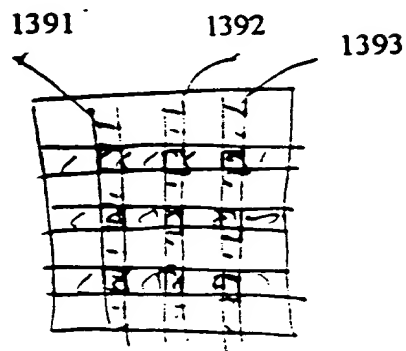


FIGURE 13D

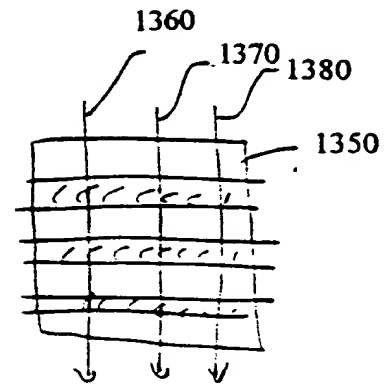


FIGURE 13C

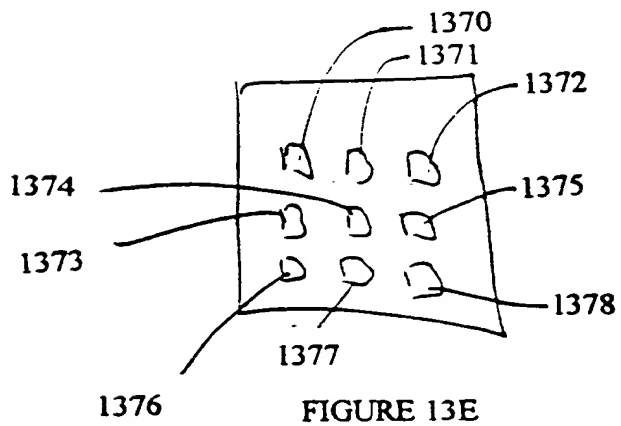


FIGURE 13E

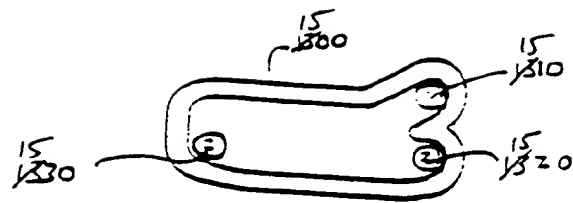


FIGURE 15

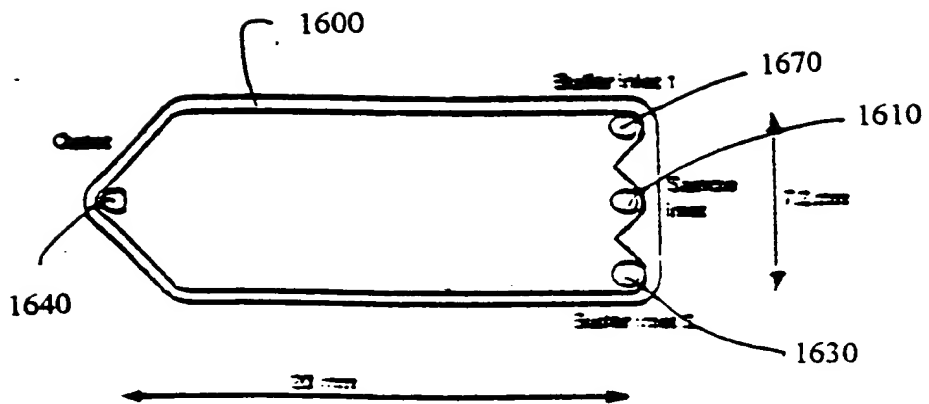


FIGURE 16

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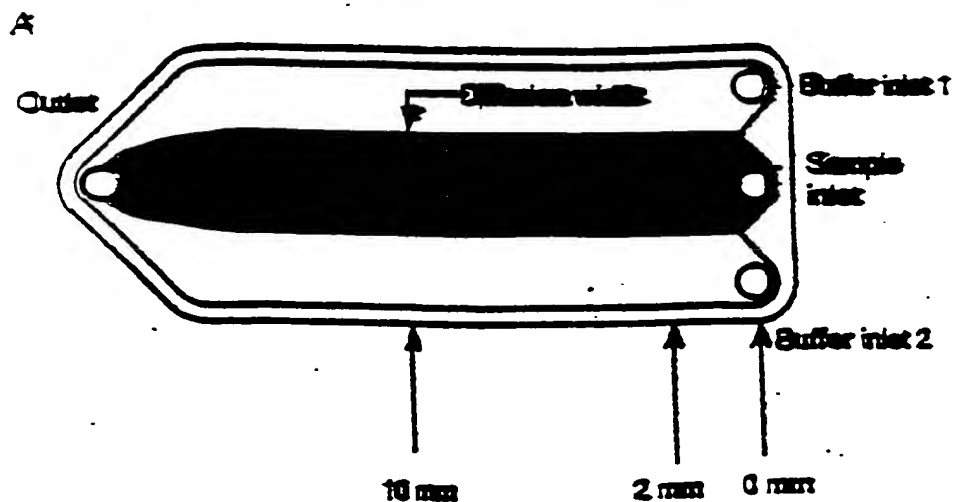


FIGURE 17A

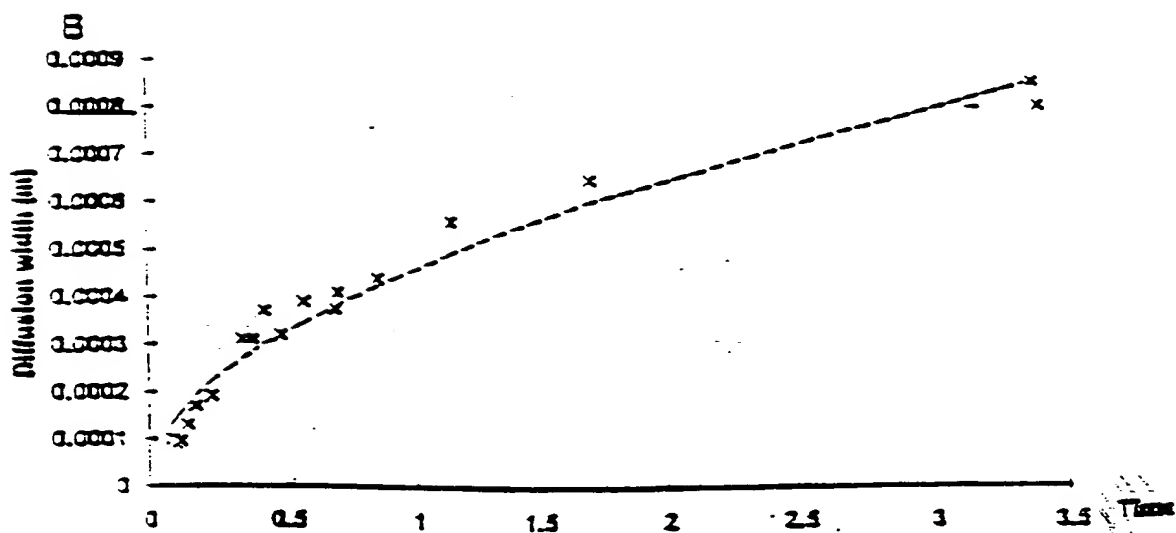


FIGURE 17B

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Figure 1 shows the chemical structures of the polymers. The top structure is poly(2-vinylpyridine) (PVP), which has a repeating unit of $[-CH_2-CH(C_5H_4N)-]$. The bottom structure is poly(2-vinylpyridine-co-2-vinylbenzoxazone) (PVP-co-PVBO), which has a repeating unit of $[-CH_2-CH(C_5H_4N)-CH_2-CH(C_6H_4N)-]$, where C_5H_4N is a 2-pyridyl group and C_6H_4N is a 2-pyridyl group.



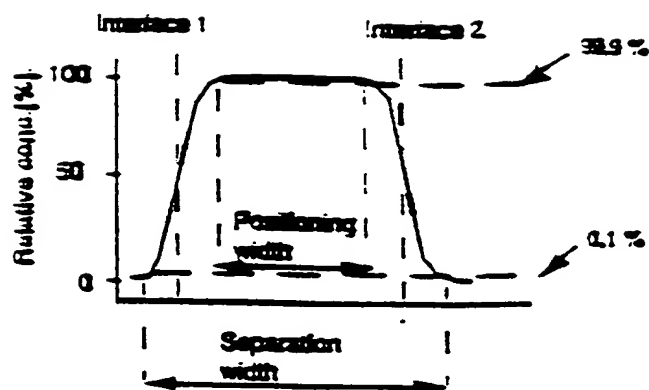


FIGURE 19

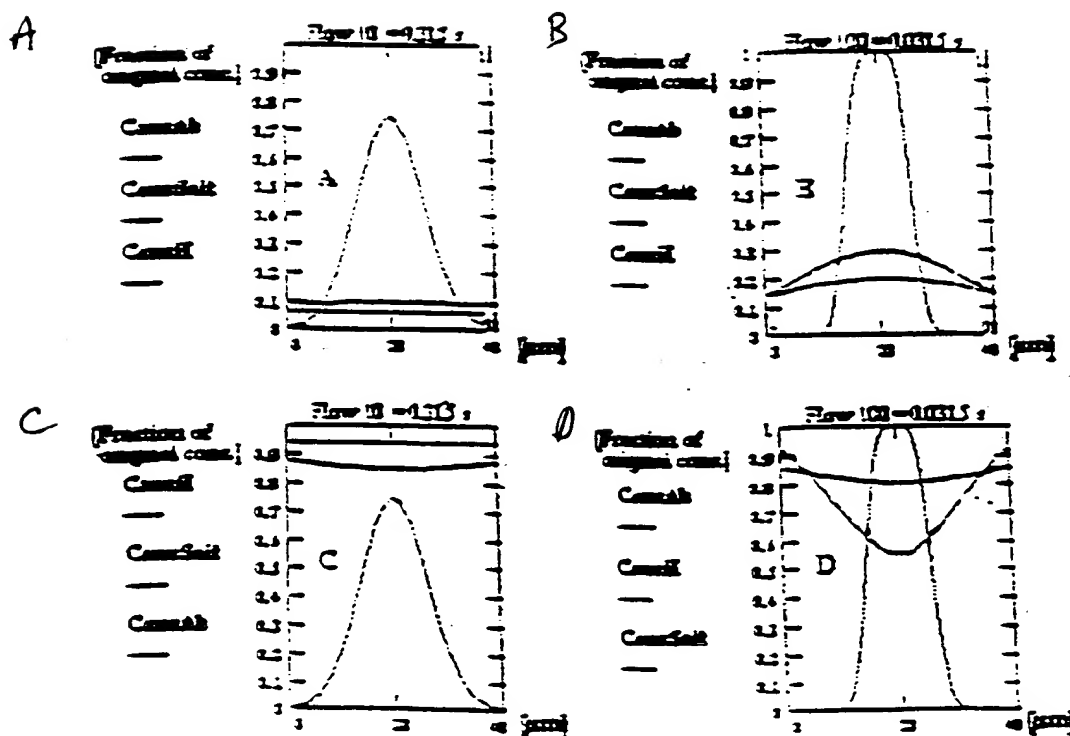


FIGURE 20

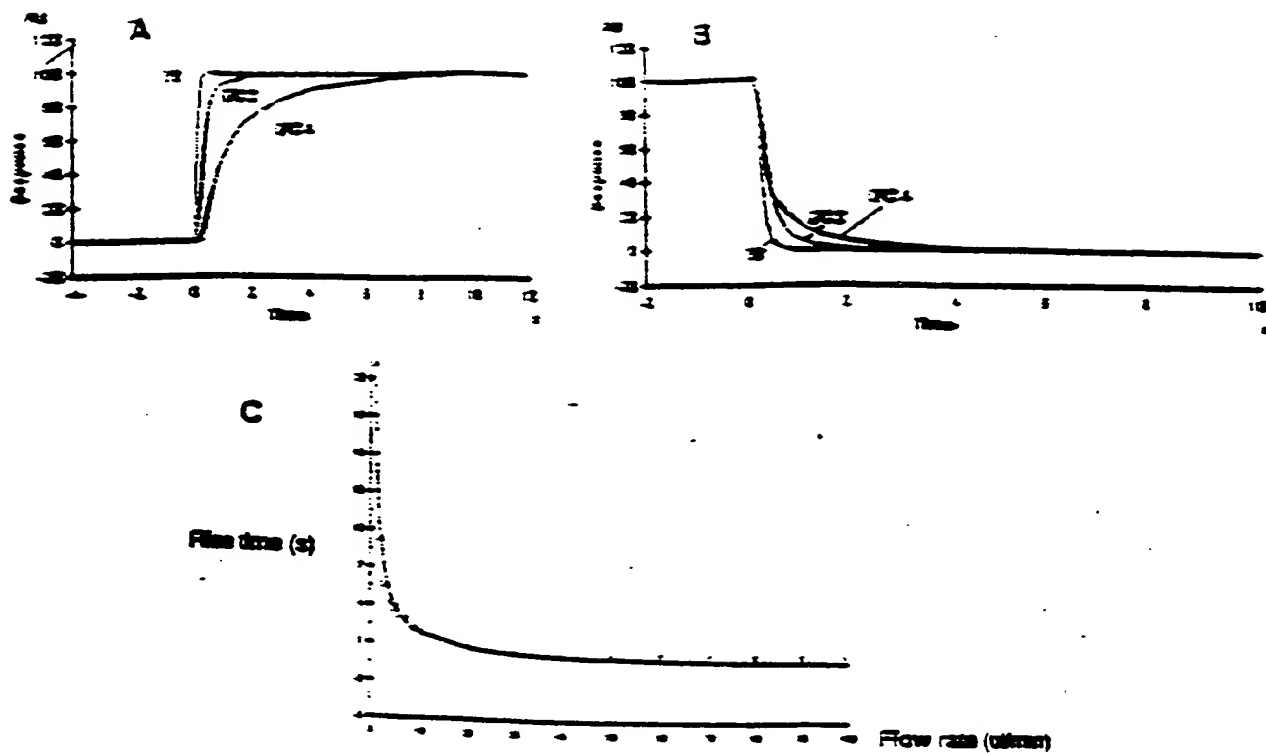


FIGURE 21

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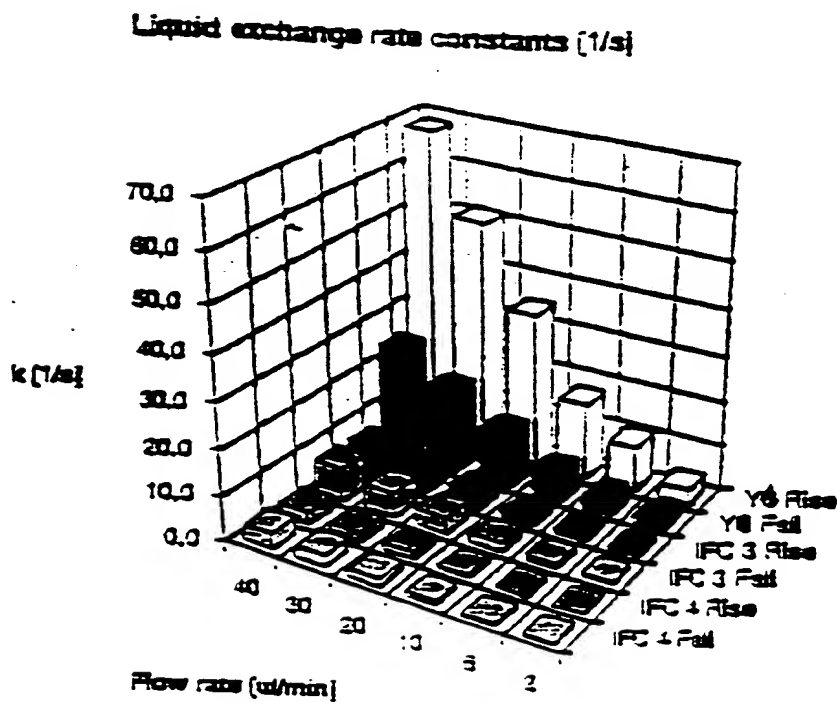


FIGURE 22

